CALIFORNIA ENERGY COMMISSION
Carbon Monoxide Sensors
Trident Center Project Summary

Project Description:

The Trident Center in West Los Angeles had a 5, 7 and 10 horsepower fan-system, with a total of 20 exhaust fans in the building's garages. The fans typically operated on a continuous basis on weekdays from 6:00 a.m. to 6:00 p.m. All the existing exhaust fans were operating constantly without any type of controls.

The Trident Center installed Carbon Monoxide sensors to control the operation of the existing exhaust fans. With the new system, the fans only run when necessary to control the level of carbon monoxide from their underground parking garage. The new controls comply with city code requirements for Carbon Monoxide levels and help cut energy costs.

Project Results:

Data loggers were used to measure the run-time of several motors after the sensors were installed. The data was taken over a twenty-day period, and indicates that the average percent run-time reduction during the peak hour period is greater than 90%, and generally none of the fans run until after 5:00 PM on the weekdays.

Description	Kilowatt (kW) Use Before System Upgrade	Kilowatt (kW) Use After System Upgrade
5 HP Motors	48 kW	5.0 kW
7.5 HP Motors	13 kW	1.5 kW
10 HP Motors	6 kW	.5 kW
Total Demand	**67 kW**	**7 kW**

Funding Details

The Energy Commission provided a $12,700 award on this project. The project has a one-year payback period.

Contacts:

BOMA of Greater Los Angeles	Barbara Harris, Executive Director 213.629.2662
Energy Innovation Group, LLC	Sidney Pelston, Technology Advisor and Program Coordinator 213.413.8344
California Energy Commission	Bruce Ceniceros 916.653.1590